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 APPLICATION NO.
 FILING DATE
 FIRST NAMED REVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 09/782_087
 02/12/2001
 Marianne Hammer
 1019/1/730
 97/15

7590 03/07/2002

KENYON & KENYON One Broadway New York, NY 10004 EXAMINER

MEDLEY, PETER M

ART UNIT PAPER NUMBER

2834 DATE MAILED: 03/07/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

a						
Office Action Summary		Applicati	Application No. Applicant(s)			
		09/782,0	87	HAMMER ET AL.		
		Examine	r	Art Unit		
		Peter M I	/ledley	2834		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extendions of time may be available under the provisions of 37 CFR 1.38(a). In no event, however, may a reply be timely filed after SIX (9) MONTH'S from the mailing date of this communication. - If the provision of 37 CFR 1.38(a) is no event, however, may a reply be timely filed after SIX (9) MONTH'S from the mailing date of this communication. - If NO period for reply is goodled above, the maximum statutory period will apply and vall expire SIX (8) MONTH'S from the mailing date of this communication. - Fillumb to reply within the sol or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Alvy reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any same patent term adjustment. See 37 CFR 1.704(b).						
1)☐ Responsi	ve to communication(s) f	iled on				
2a)☐ This action	n is FINAL.	2b) This action is	non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1</u>	1-10 is/are pending in the	application.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7)⊠ Claim(s) <u>10</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on 12 February 2001 is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□	Some * c) None of:					
1.⊠ Cert	tified copies of the priority	documents have been	en received.			
2.☐ Cert	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) ∑ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152) 3) ∑ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4. 6) ☐ Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 1, 2, 4-6, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Omatsu.

With respect to claims 1, 2, 4 and 9, the reference discloses a piezoelectric ceramic body comprising a laminated PZT structure 1 and internal electrodes made of AqPd 2 and PZT.

With respect to claim 5, the reference discloses in line 35 of column 5 70% Ag. With respect to claim 6, fig. 3 discloses less than 50% volume of PZT.

 Claims 6 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Yasuda et al.

The reference discloses in fig. 1 a laminated piezoelectric structure and inner electrodes with silver and Fe or Ni of less than %Mol.

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Application/Control Number: 09/782,087 Art Unit: 2834

5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Omatsu.

The reference discloses a piezoelectric ceramic body comprising a laminated PZT structure 1 and internal electrodes made of AqPd 2 and PZT.

The reference does not disclose the exact composition of the PZT.

The Examiner takes Official Notice that the mechanical and electrical characteristics of different PZT compositions would have been well known. The court has found that the selection of a known material based on its suitability for its intended use is obvious. *In re Leshin*, 227 F.2d 197, 125 USPQ 416 (CCPA 1960). *Sinclair & Carroll Co. v. Interchemical Corp.*, 325 U.S. 327, 65 USPQ 297 (1945). It would have been obvious to one of ordinary skill in the art to use the claimed composition for the purpose of utilizing the known mechanical and electrical characteristics.

Allowable Subject Matter

 Claim 10 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter M Medley whose telephone number is 703-305-0494. The examiner can normally be reached on Monday-Friday 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers

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for the organization where this application or proceeding is assigned are 703-305-3432 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

PM March 4, 2002 NESTOR RAMIREZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800